User's Manual

Mega POS MP-3000 Series
MP-3275
15” Dual-Core High-Performance
POS system

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Safety and Warranty

1. Read these safety instructions carefully.

2. Keep this user's manual for later reference.

3. Disconnect this equipment from any AC outlet before cleaning. Do not use liquid or spray detergents for cleaning. Use a damp cloth.

4. For pluggable equipment, the power outlet must be installed near the equipment and must be easily accessible.

5. Keep this equipment away from humidity.

6. Put this equipment on a reliable surface during installation. Dropping it or letting it fall could cause damage.

7. The openings on the enclosure are for air convection. Protect the equipment from overheating. DO NOT COVER THE OPENINGS.

8. Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.

9. Position the power cord so that people cannot step on it. Do not place anything over the power cord.

10. All cautions and warnings on the equipment should be noted.

11. If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient over-voltage.

12. Never pour any liquid into an opening. This could cause fire or electrical shock.

13. Never open the equipment. For safety reasons, only qualified service personnel should open the equipment.

14. If any of the following situations arises, get the equipment checked by service personnel:
a. The power cord or plug is damaged.
b. Liquid has penetrated into the equipment.
c. The equipment has been exposed to moisture.
d. The equipment does not work well, or you cannot get it to work according to the user’s manual.
e. The equipment has been dropped and damaged.
f. The equipment has obvious signs of breakage.

15. DO NOT LEAVE THIS EQUIPMENT IN AN UNCONTROLLED ENVIRONMENT WHERE THE STORAGE TEMPERATURE IS BELOW -20°C (-4℉) OR A BOVE 60°C (140°F). IT MAY DAMAGE THE EQUIPMENT.

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Chapter 1

Introduction

MP-3275 Introduction

Combining high performance with cost-effective design concept, MP-3275 is a decent choice for budget-concerning customers. The sturdy but shaped plastic mechanical design represents FEC's persistence in quality and taste. With abundant I/O access, MP-3275 provides great connectivity and considerable integrated peripheral options. Equipped with 270W power supply, the terminal is powerful enough to run Dual-Core CPU and to drive devices powered from the system COM ports.

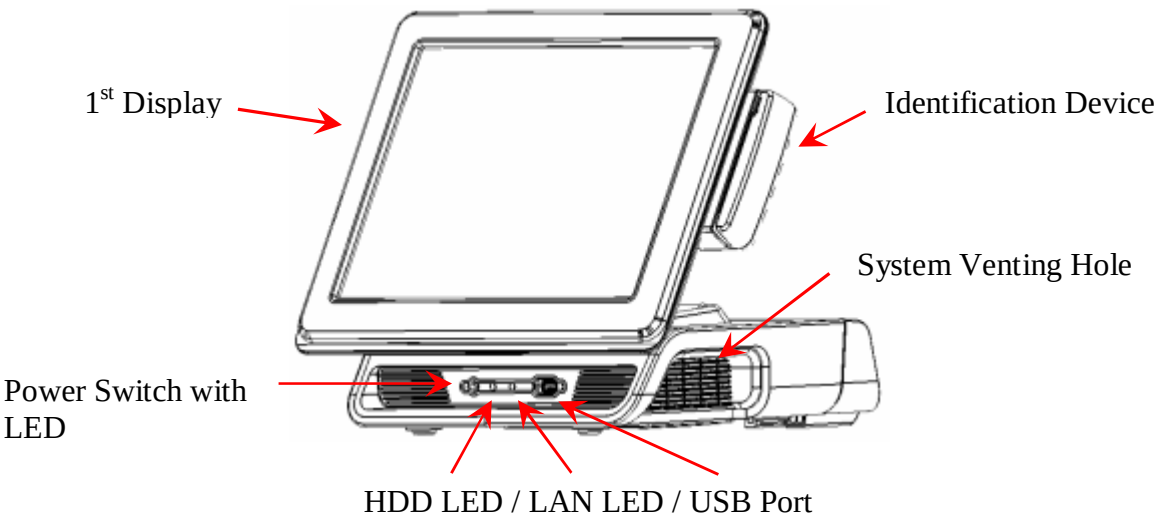
Main Features:

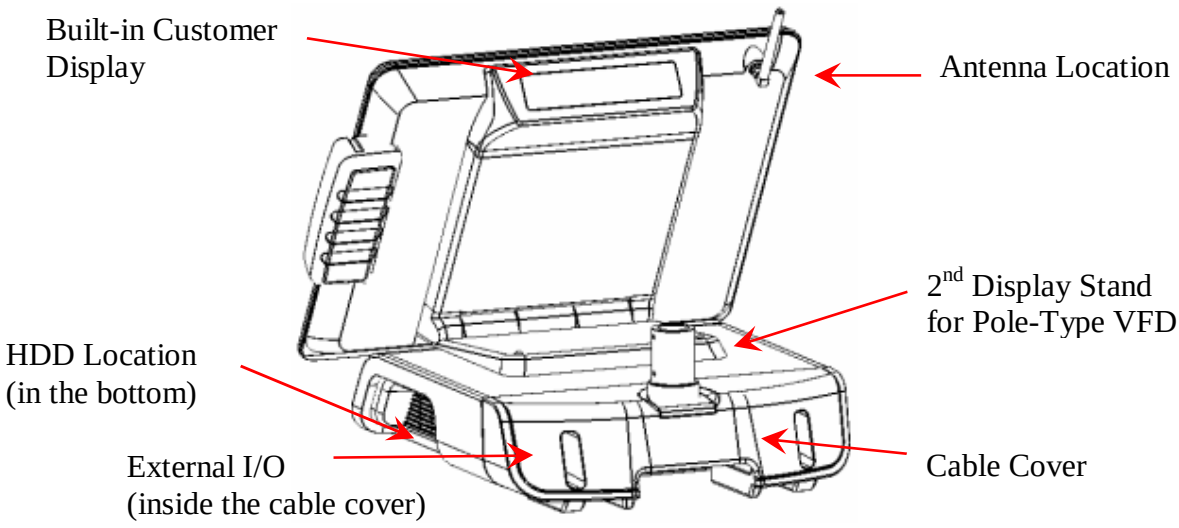
- Built-in customer display for space saving
- Front panel IP54 compliant for dust and water spill resistance
- Easy maintenance for system parts, such as HDD, CF, RAM, and CPU
- Strong system performance boost possibility with Dual-Core CPU support and 2 x memory DIMM sockets
- Integrated cable cover for supporting pole-type VFD and cable management

MP-3275 w/ cable cover & MCR

A Quick Tour for MP-3275

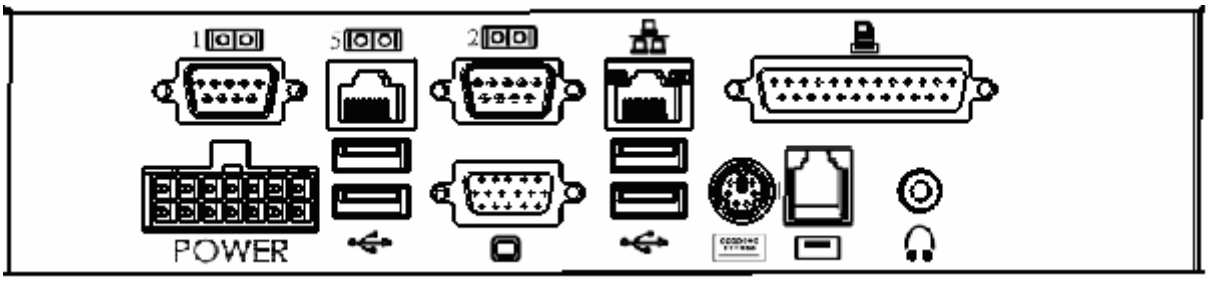
Before you start, take a moment to become familiar with **MP-3275**.




Built-in Customer Display
Antenna Location
2nd Display Stand for Pole-Type VFD
HDD Location (in the bottom)
External I/O (inside the cable cover)
Cable Cover

MP-3275 Dimension

Rear I/O Panel



I/O Port	Connector Type	Description
	Earphone connector	Connect the speakers to this port
	USB type A connector	Standard USB connector for external device
POWER	DC Power connector	Connect the power supply to this port
5	VFD / RJ45 connector	This RJ45 port can be used to attach a VFD customer display or serve as an additional serial port (switching cable provided).
	RJ11 connector	Cash Drawer Connector, 12 V actuation support
	PS2 connector	Connect the keyboard or mouse to this port
1 2	D-SUB 9 connector	The serial ports COM1/COM2 can be used to connect devices such as a printer or a fax/modem.
	Parallel 25-pin LPT Connector	The standard LPT (D-SUB 25 pin) connector for connecting POS printers or KeyPro solution
	RJ45 connector	Connect MP-3275 to the Ethernet
	D-Sub 15 Pin Connector	The VGA port is used for connecting LCD or CRT monitors

Packing List

- MP-3275 Main System x 1
- Power Supply x 1
- Driver & Manual CD x 1
- AC Power Cord x 1
- COM port switching cable (RJ45 to D-SUB 9 pin) x 1

Optional:

- Pole-type Customer Display
- MCR
- Built-in LCM Customer Display Module
- WiFi / CDMA / GPRS Wireless Module

Chapter 2

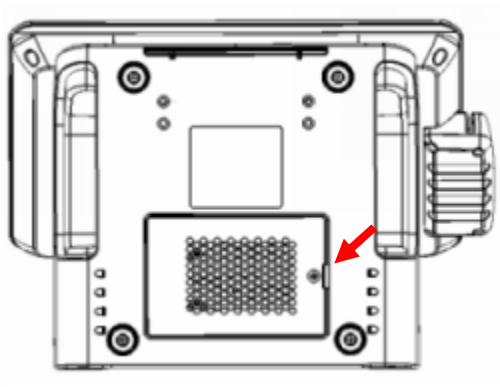
Hardware Installation and Upgrading

Do not remove the rear cover until you have verified that no power is supplied to the system. Power must be switched off and the power cord must be unplugged. Every time you service the system, you should be aware of this.

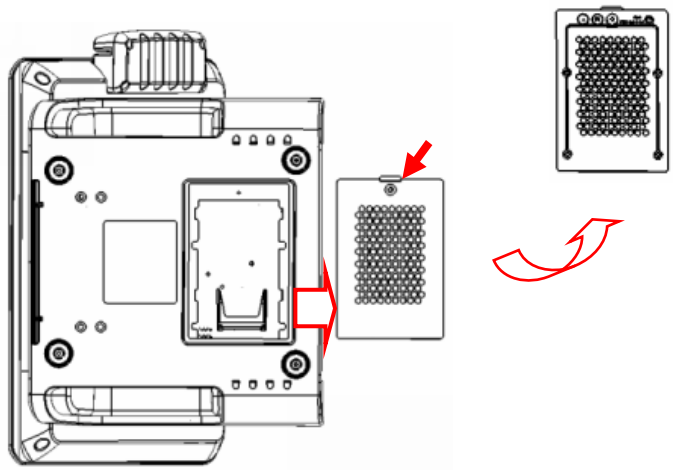
2.5” Hard Disk Drive Installation

1. **Turn off power and remove power cord from the system**

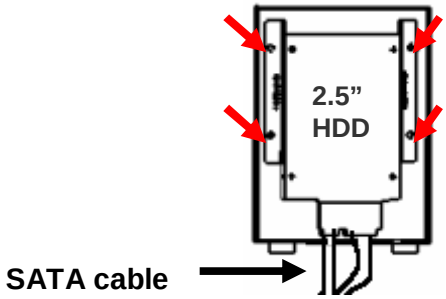
2. **Unscrew the maintenance door at the bottom of the unit**



3. **Remove the door and flip it over**



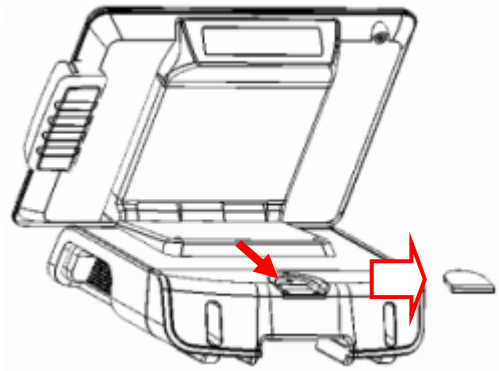
4. **Place HDD kit on the door, fasten it with 4 screws and connect with the SATA cable.**



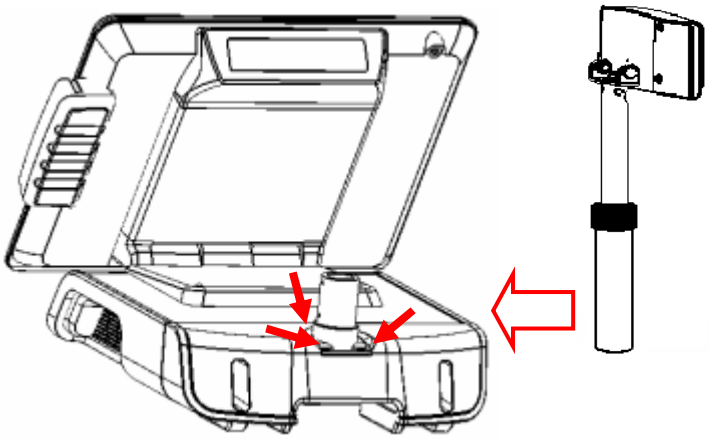
5. **Restore the maintenance door to the system.**
6. **Fix the door with the screw.**
7. **Connect the power cord to the system.**

Pole-Type VFD Installation

1. **Remove the plastic cover on the cable cover**



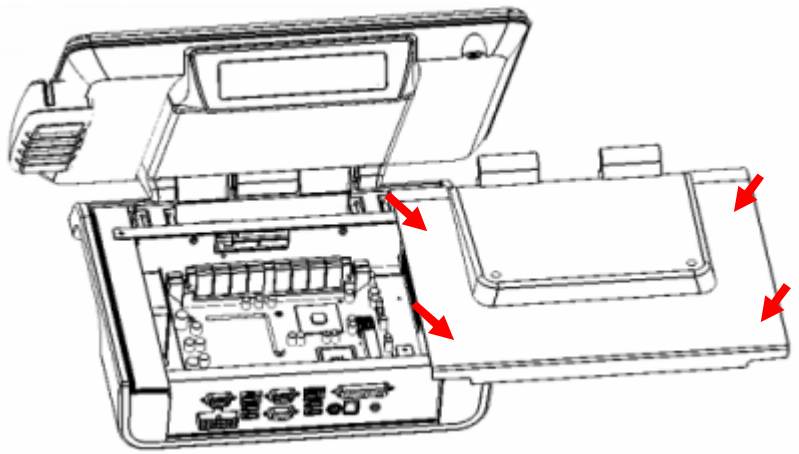
2. **Fix the pole stand with screws and place the pole-type customer display to the stand**



3. **Connect the RJ45 or RS-232 (D-Sub 9) cable to the system.**

Memory (DDRII RAM) / CPU / DOM Installation

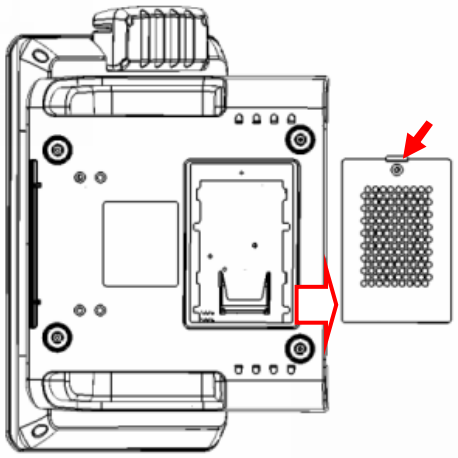
1. **Unscrew and remove the top cover**



2. **Install the DDRII RAM or CPU you require**
3. **Restore the top cover**

Compact Flash Card (CF) Installation

4. **Unscrew and remove the maintenance door**



5. **Install the CF you require**

6. **Restore the maintenance door**

MCR Parameter Modification

This option is for users who need to customize the MCR parameters for a particular task.
Some of the useful parameters include:

The selection of country code, other than the default English.

The choice of track combinations.

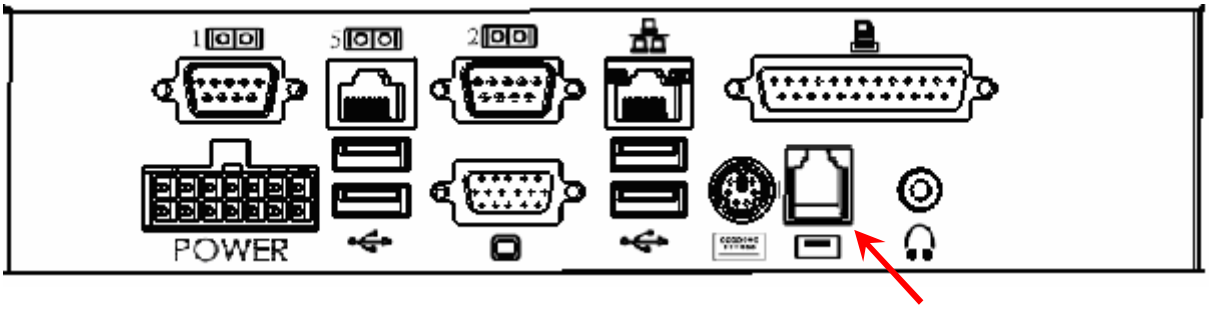
The preamble/post amble codes.

The MCR parameters can be modified by using the supplied utility program.
The utility can be found on the CD that came with your system in the “Utilities” folder. The program name is msr_v12_win.zip.

Cash Drawer Installation

Before connecting the cash drawer to the **MP-3275**, please make sure the drive voltage and cable pin assignment of the cash drawer matches the definition of the cash drawer port of **MP-3275**. Please refer to the mother board manual GPIO part for more information.

Plug cash drawer cable into the cash drawer port.



Note: If the cash drawer cannot be detected by the system, please refer to **troubleshooting.**

Up to two cash drawers may be driven from this port. Driving voltage of the solenoid is DC+12V. I/O port 2F is used for drawer operation. A test program is supplied, for Linux and Windows, source code of which is available on request by software developers.

To test for drawer open, read port **2F,** if bit 0=1 then drawer is open, if bit 0=0 drawer is closed.

Before testing the cash drawer function, ensure to initiate the GPIO port first referring to the command sets below:

initGPIO=2e,87,2e,87,2e,07,2f,07,2e,f1

(2e stands for the address while ‘87’, ‘07’, ‘f1’ stands for the value to the address. All the values here are hexadecimal.)

Chapter 3

Software Installation and Setup

MP-3275 comes with a variety of drivers for different operating systems.

You may find the system CD with all the necessary drivers and utilities.

Please follow this installation sequence.

Driver installation sequence:

Chipset Driver -> VGA Driver -> LAN Driver -> Audio Driver ->Touch Tools

The reason to follow our sequence is that IRQ settings will be changed by Windows XP and Vista to non supported values, and you may encounter unnecessary problems later.

Intel Chipset Driver Installation for Windows XP & Vista

1. Insert the CD into your CD ROM Drive.
2. Locate the folder of **D:\DRIVER\CHIPSET**
3. Open **Setup.exe**

Intel® Chipset Device Software
Intel® Chipset Device Software
intel
Welcome to the Setup Program
This setup program will install the Intel® Chipset Device Software onto this computer. It is strongly recommended that you exit all programs before continuing.
< Back
Next >
Cancel
Intel® Installation Framework

4. Click **Next**.

Intel® Chipset Device Software
Intel® Chipset Device Software
License Agreement
intel
You must accept all of the terms of the license agreement in order to continue the setup program. Do you accept the terms?
INTEL SOFTWARE LICENSE AGREEMENT (OEM / IHV / ISV Distribution & Single User)
IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING.
Do not use or load this software and any associated materials (collectively, the "Software") until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this Agreement. If you do not wish to so agree, do not install or use the Software.
Please Also Note:
* If you are an Original Equipment Manufacturer (OEM), Independent Hardware Vendor (IHV), or Independent Software Vendor (ISV), this complete LICENSE AGREEMENT applies;
< Back
Yes
No
Intel® Installation Framework

5. Read the License Agreement and click **Yes**.

Intel® Chipset Device Software
Intel® Chipset Device Software
Readme File Information
intel
Refer to the Readme file below to view the system requirements and installation information.
Press the Page Down key to view the rest of the file.
****
* Product: Intel(R) Chipset Device Software
* Release: Production Version
* Version: 8.3.1.1009
* Target Chipset#: X38 & 3200/3210 Chipset
* Date: July 26 2007
****
< Back
Next >
Cancel
Intel® Installation Framework

6. Click **Next** and the drivers for the Intel Chip set will install.

Intel® Chipset Device Software
Intel® Chipset Device Software
Setup Progress
Please wait while the following setup operations are performed:
Installing Driver: Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27C9
Version: 8.2.0.1008
Installing Driver: Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27CA
Version: 8.2.0.1008
Installing Driver: Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27CB
Version: 8.2.0.1008
Installing Driver: Intel(R) 82801G (ICH7 Family) USB2 Enhanced Host Controller - 27CC
Version: 8.2.0.1008
Click Next to continue.
Next
Intel® Installation Framework

7. Please wait while the setup program processing.

Intel® Chipset Device Software
Intel® Chipset Device Software
Setup Is Complete
You must restart this computer for the changes to take effect. Would you like to restart the computer now?
Yes, I want to restart this computer now.
No, I will restart this computer later.
Click Finish, then remove any installation media from the drives.
Finish
Intel® Installation Framework

(for Windows XP)

Intel® Chipset Device Software
Intel® Chipset Device Software
Setup Is Complete
intel
The setup program successfully installed the Intel® Chipset Device Software onto this computer.
Click Finish to complete the setup process.
Finish
Intel® Installation Framework

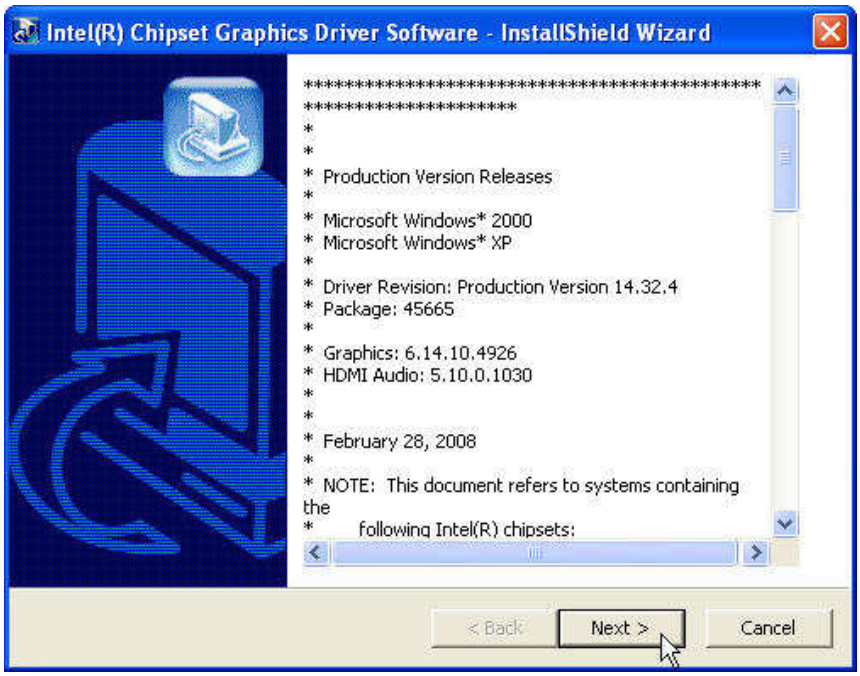
(for Windows Vista)

8. When the 'Setup COMPLETE' message appears click **Finish** to restart your computer.

VGA Driver Installation

945GC Driver Installation for Windows XP & Vista

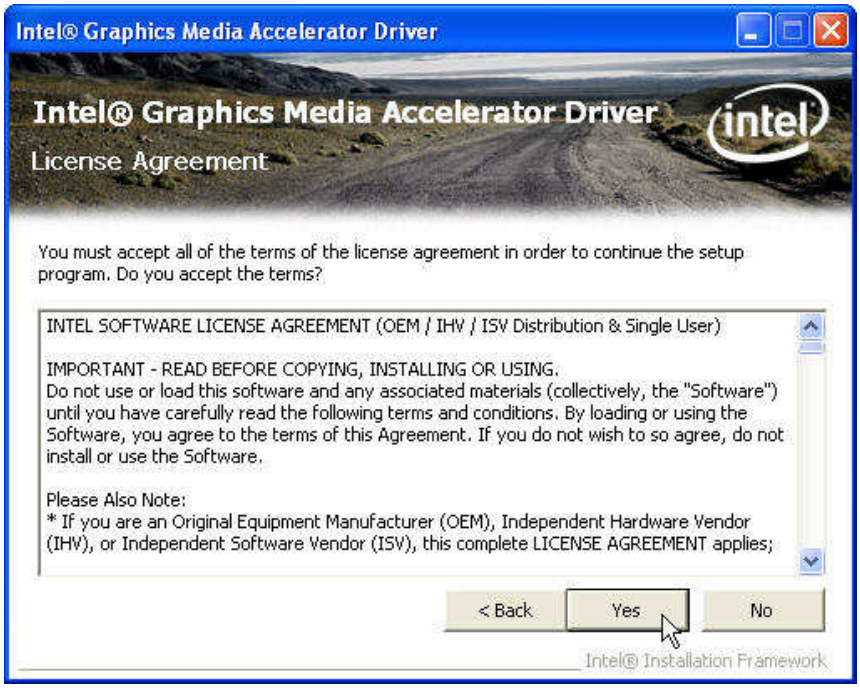
1. Locate the folder of **D:\Driver\Graphics\WinXP_2K**
2. Open **win2k_xp14324.exe**


Intel(R) Chipset Graphics Driver Software - InstallShield Wizard
****
* Production Version Releases
* Microsoft Windows* 2000
* Microsoft Windows* XP
* Driver Revision: Production Version 14.32.4
* Package: 45665
* Graphics: 6.14.10.4926
* HDMI Audio: 5.10.0.1030
* February 28, 2008
* NOTE: This document refers to systems containing the
following Intel(R) chipsets:
< Back
Next >
Cancel

3. Select **Next** to continue.

Intel® Graphics Media Accelerator Driver
Intel® Graphics Media Accelerator Driver
intel
Welcome to the Setup Program
This setup program will install the Intel® Graphics Media Accelerator Driver onto this computer. It is strongly recommended that you exit all programs before continuing. Click Next to continue.
< Back
Next >
Cancel
Intel® Installation Framework

4. Select **Next** to continue.


Intel® Graphics Media Accelerator Driver
Intel® Graphics Media Accelerator Driver
License Agreement
intel
You must accept all of the terms of the license agreement in order to continue the setup program. Do you accept the terms?
INTEL SOFTWARE LICENSE AGREEMENT (OEM / IHV / ISV Distribution & Single User)
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Please Also Note:
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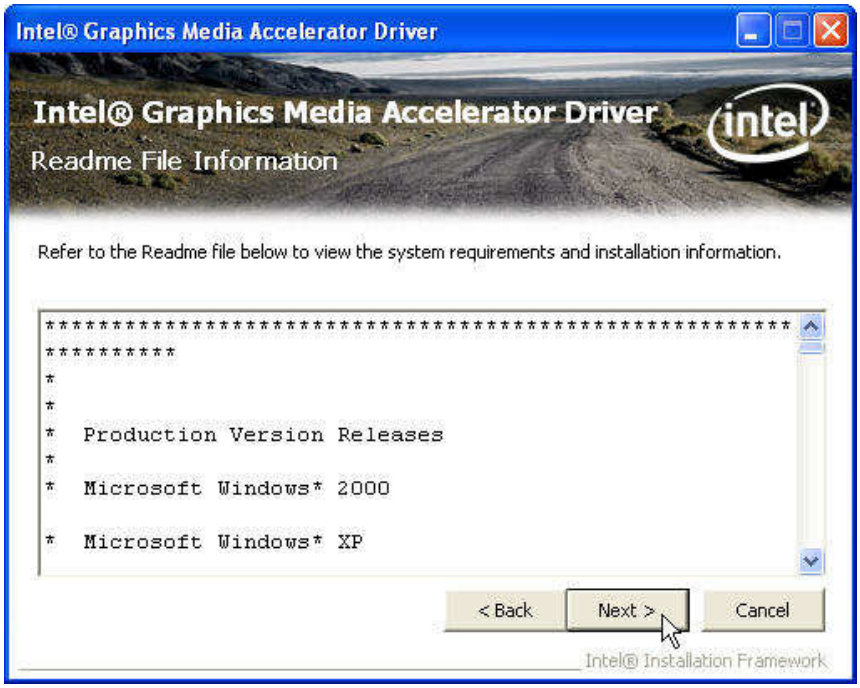
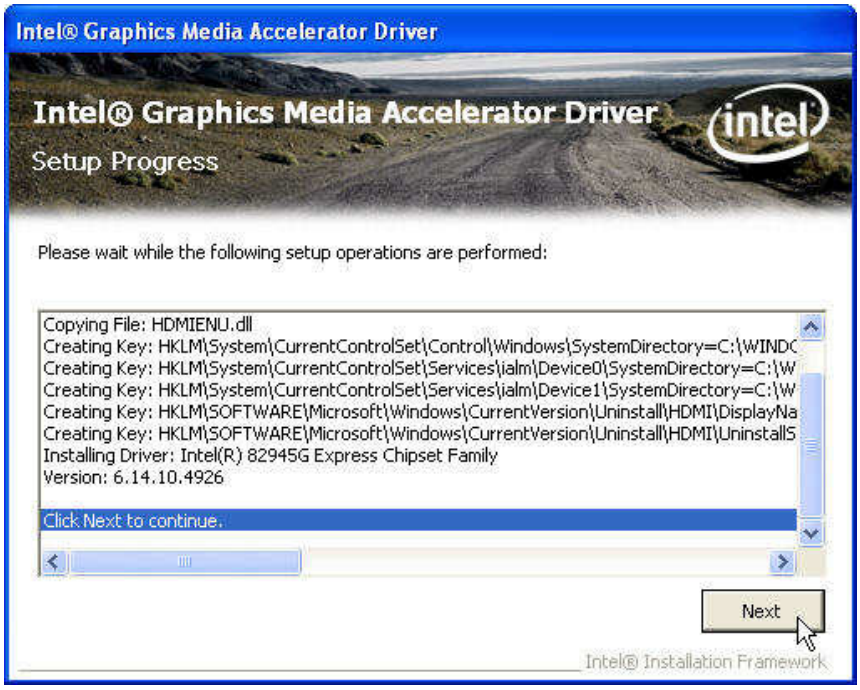
< Back
Yes
No
Intel® Installation Framework

5. Read the License Agreement and click **Yes**.



6. Click **Next** to see the setup progress.



7. Select **Next** to continue.

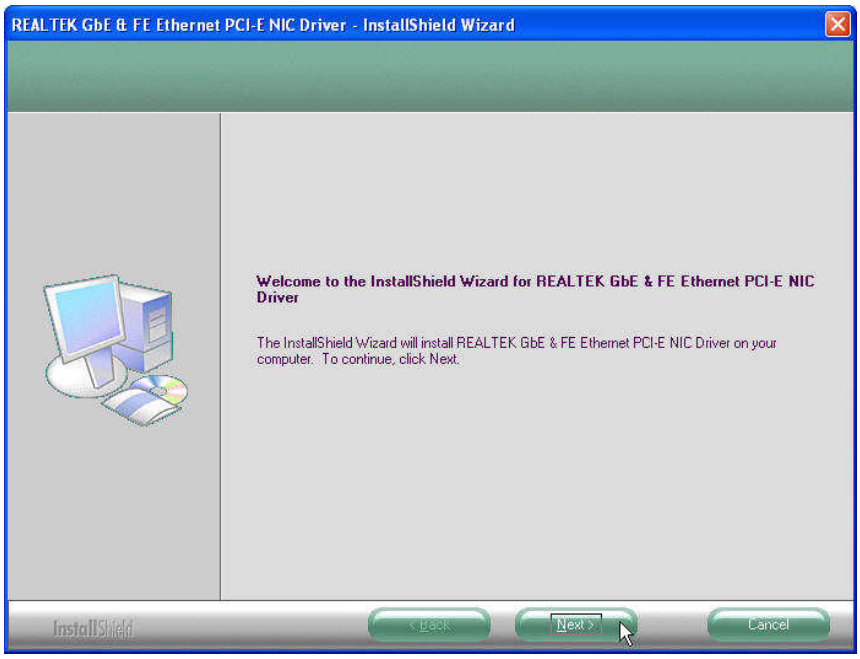
Intel® Graphics Media Accelerator Driver
Intel® Graphics Media Accelerator Driver
Setup Is Complete
intel
You must restart this computer for the changes to take effect. Would you like to restart the computer now?
Yes, I want to restart this computer now.
No, I will restart this computer later.
Click Finish, then remove any installation media from the drives.
Finish
Intel® Installation Framework

8. Click **Finish** to complete the installation procedure and restart the system.

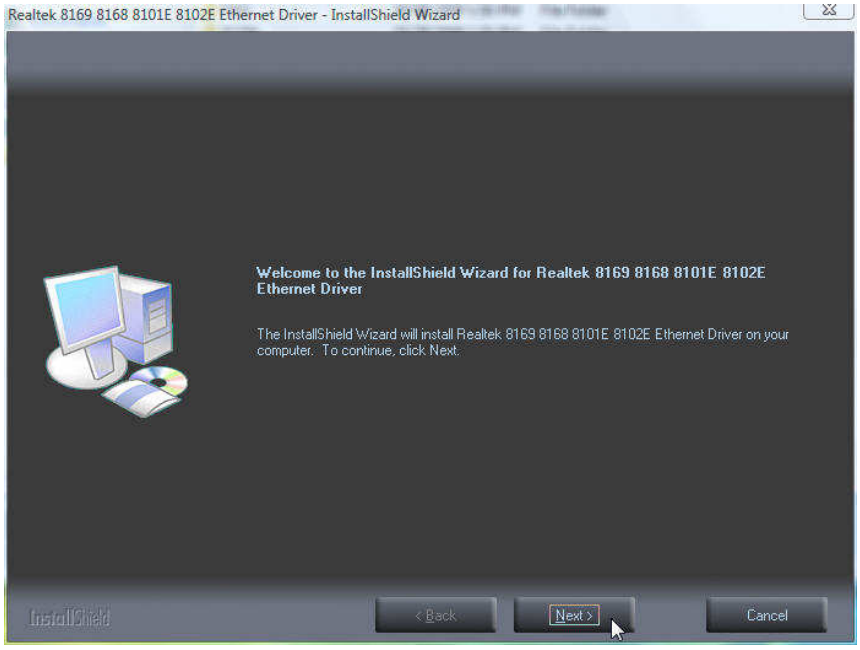
LAN Driver Installation

LAN Driver Installation for Windows XP & Vista.

1. Locate **D:\Driver\Ethernet\WinXP_2k**
2. Double click **Setup.exe**.

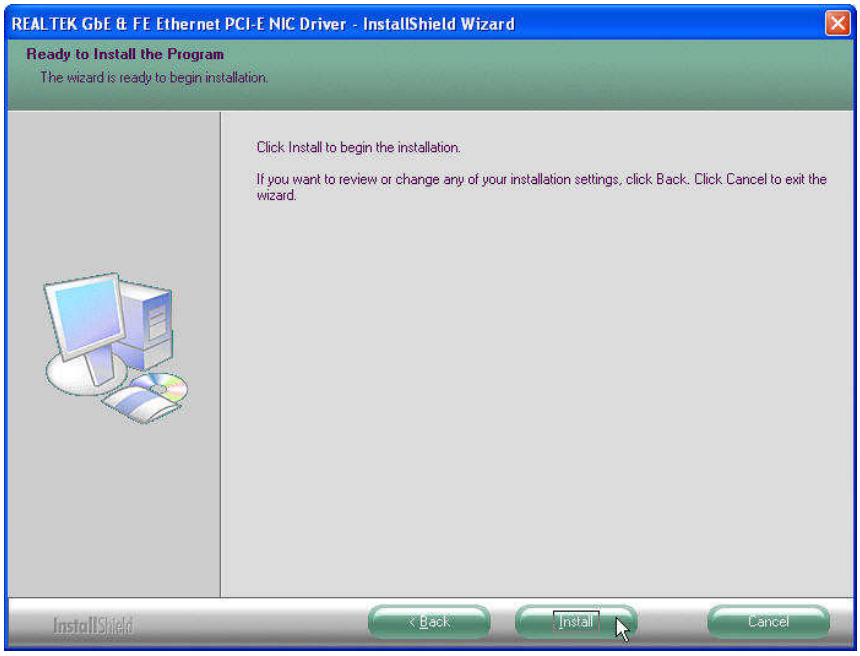

REALTEK GbE & FE Ethernet PCI-E NIC Driver - InstallShield Wizard
Welcome to the InstallShield Wizard for REALTEK GbE & FE Ethernet PCI-E NIC Driver
The InstallShield Wizard will install REALTEK GbE & FE Ethernet PCI-E NIC Driver on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

(for Windows XP)

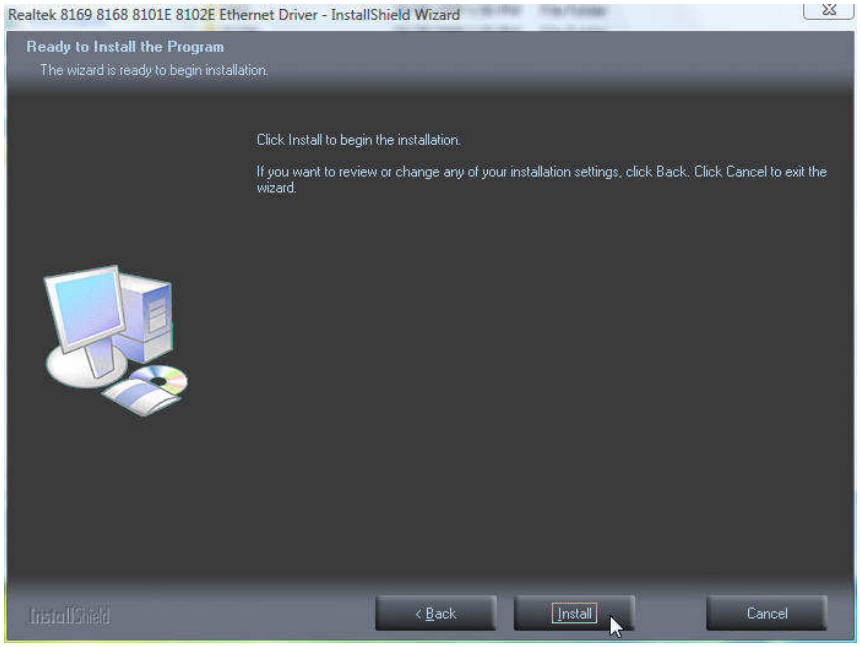

Realtek 8169 8168 8101E 8102E Ethernet Driver - InstallShield Wizard
Welcome to the InstallShield Wizard for Realtek 8169 8168 8101E 8102E Ethernet Driver
The InstallShield Wizard will install Realtek 8169 8168 8101E 8102E Ethernet Driver on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

(for Windows Vista)

3. Click **Next** to continue

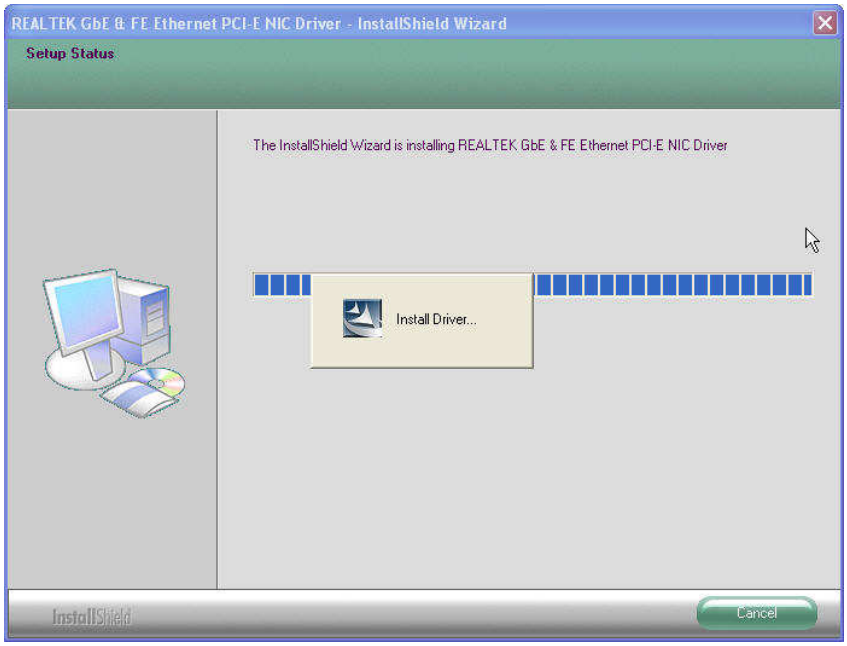

REALTEK GbE & FE Ethernet PCI-E NIC Driver - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

(for Windows XP)

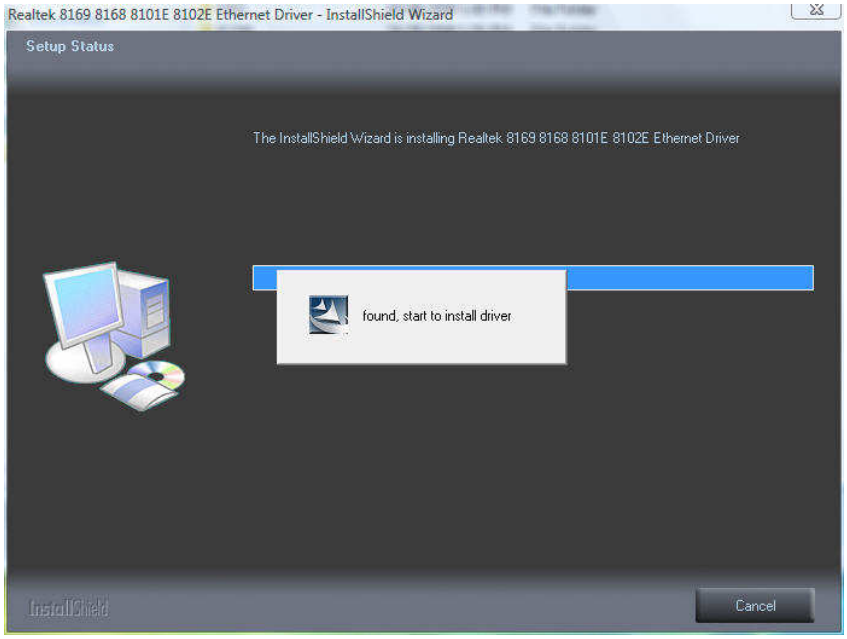

Realtek 8169 8168 8101E 8102E Ethernet Driver - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

(for Windows Vista)

4. Click **Next** to continue

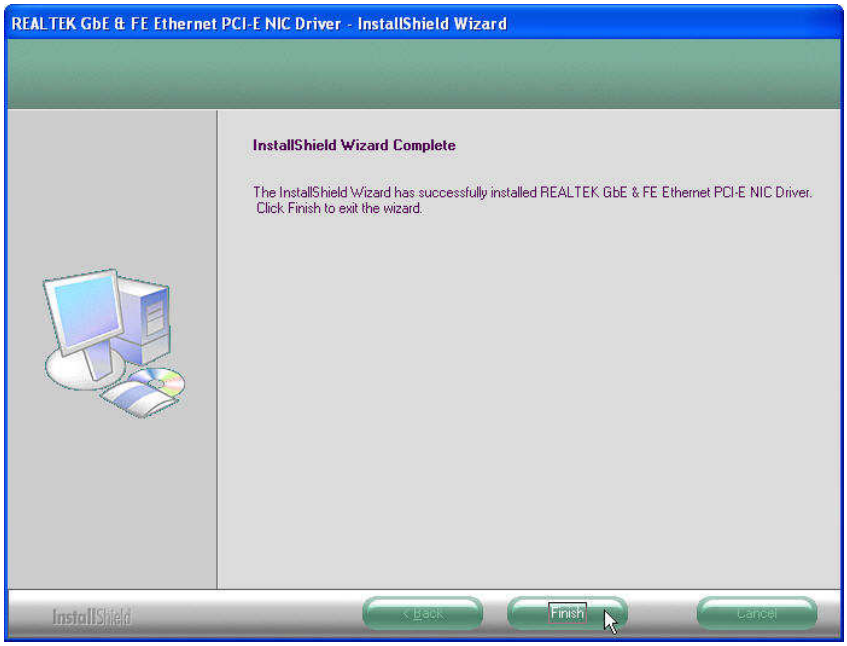

REALTEK GbE & FE Ethernet PCI-E NIC Driver - InstallShield Wizard
Setup Status
The InstallShield Wizard is installing REALTEK GbE & FE Ethernet PCI-E NIC Driver
Install Driver...
InstallShield
Cancel

(for Windows XP)

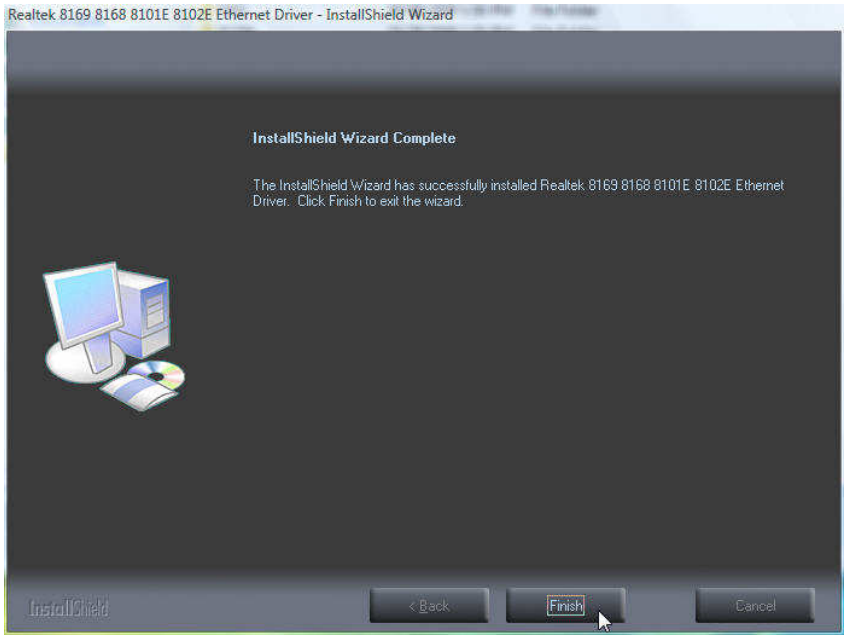

Realtek 8169 8168 8101E 8102E Ethernet Driver - InstallShield Wizard
Setup Status
The InstallShield Wizard is installing Realtek 8169 8168 8101E 8102E Ethernet Driver
found, start to install driver
InstallShield
Cancel

(for Windows Vista)

5. Please wait while processing.


REALTEK GbE & FE Ethernet PCI-E NIC Driver - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed REALTEK GbE & FE Ethernet PCI-E NIC Driver. Click Finish to exit the wizard.
InstallShield
< Back
Finish
Cancel

(for Windows XP)


Realtek 8169 8168 8101E 8102E Ethernet Driver - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed Realtek 8169 8168 8101E 8102E Ethernet Driver. Click Finish to exit the wizard.
InstallShield
< Back
Finish
Cancel

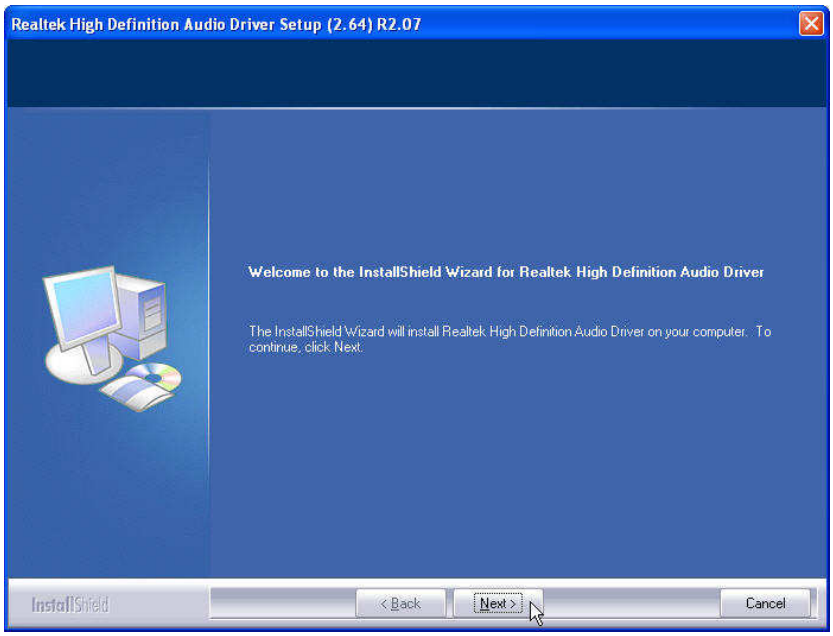
(for Windows Vista)

6. Click **Finish** to complete the installation procedure.

Audio Driver Installation

Audio Driver Installation for Windows XP & Vista

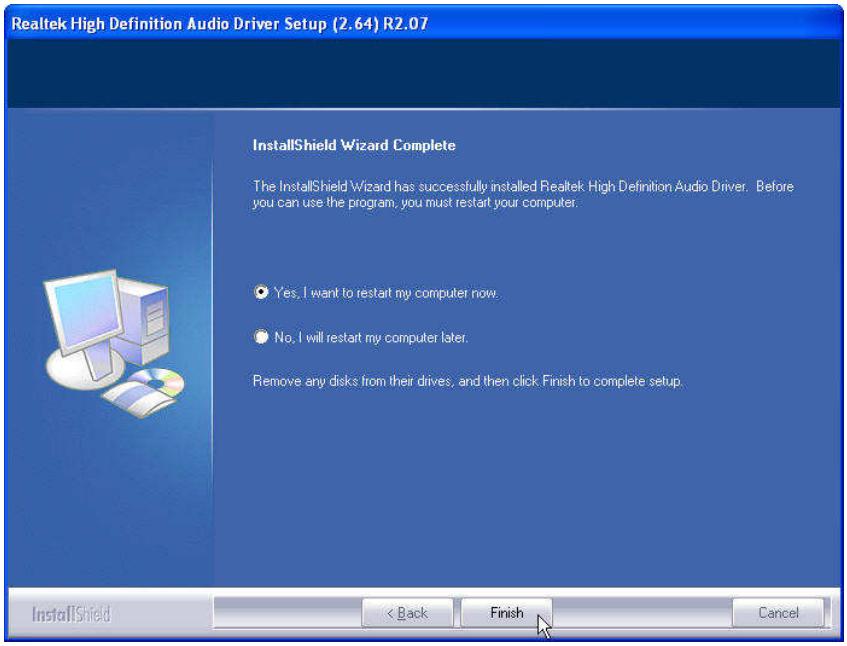
1. Locate **D:\Driver\Audio\WinXP_Vista_2k**
2. Double click **Setup.exe**.


Realtek High Definition Audio Driver Setup (2.64) R2.07
Welcome to the InstallShield Wizard for Realtek High Definition Audio Driver
The InstallShield Wizard will install Realtek High Definition Audio Driver on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

3. Click **Next** to continue.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

4. Click **Next** to continue.


Realtek High Definition Audio Driver Setup (2.64) R2.07
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed Realtek High Definition Audio Driver. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
InstallShield
< Back
Finish
Cancel

5. Click **Finish** and restart the system.

ELO Touch Tools Installation

ELO Touch Tools Installation for Windows XP & Vista

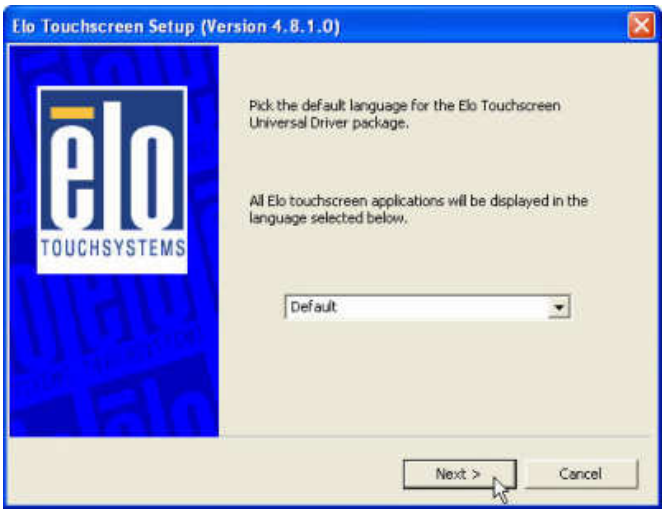
1. Locate **D:\Driver\TouchScreen\ELO Touch\XP_Vista**
2. Open **SW600650.exe**

WinZip Self-Extractor
Welcome to Elo Universal Driver for Windows XP/Windows Vista Installer.
Driver Version 4.8.1 (08-20-2008)
Click OK to continue.
OK

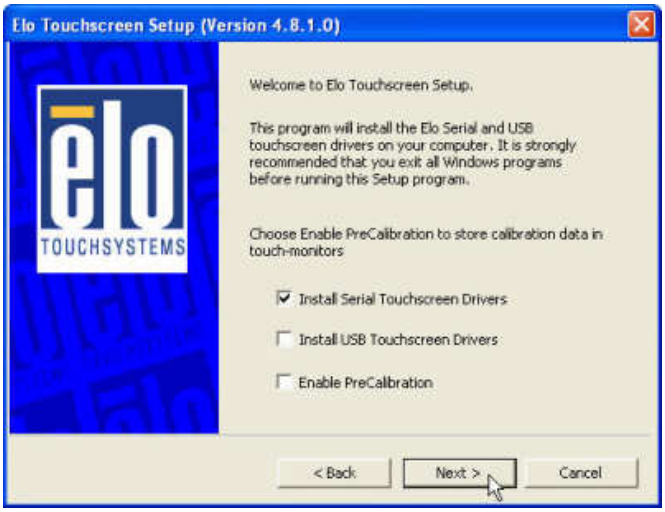
3. Click **OK** to continue.

4. Click **Unzip** to continue the installation.

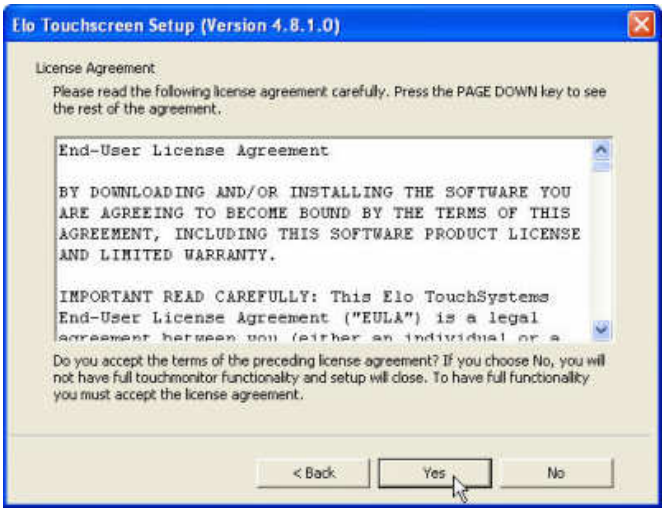
5. Click **OK** to continue.


Elo Touchscreen Setup (Version 4.8.1.0)
Pick the default language for the Elo Touchscreen Universal Driver package.
All Elo touchscreen applications will be displayed in the language selected below.
Default
Next >
Cancel

6. Pick the default language for the Elo Touchscreen and click **Next** to continue.


Elo Touchscreen Setup (Version 4.8.1.0)
Welcome to Elo Touchscreen Setup.
This program will install the Elo Serial and USB touchscreen drivers on your computer. It is strongly recommended that you exit all Windows programs before running this Setup program.
Choose Enable PreCalibration to store calibration data in touch-monitors
Install Serial Touchscreen Drivers
Install USB Touchscreen Drivers
Enable PreCalibration
< Back
Next >
Cancel

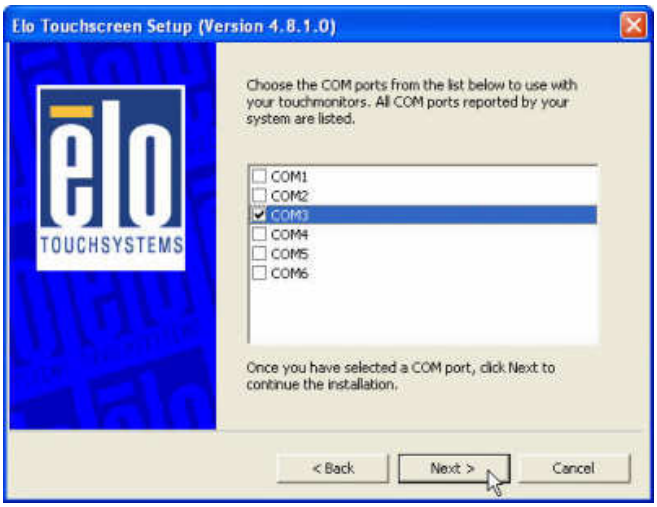
7. Check “Install serial Touchscreen Drivers” And click **Next**.


Elo Touchscreen Setup (Version 4.8.1.0)
License Agreement
Please read the following license agreement carefully. Press the PAGE DOWN key to see the rest of the agreement.
End-User License Agreement
BY DOWNLOADING AND/OR INSTALLING THE SOFTWARE YOU ARE AGREEING TO BECOME BOUND BY THE TERMS OF THIS AGREEMENT, INCLUDING THIS SOFTWARE PRODUCT LICENSE AND LIMITED WARRANTY.
IMPORTANT READ CAREFULLY: This Elo TouchSystems End-User License Agreement ("EULA") is a legal
Do you accept the terms of the preceding license agreement? If you choose No, you will not have full touchmonitor functionality and setup will close. To have full functionality you must accept the license agreement.
< Back
Yes
No

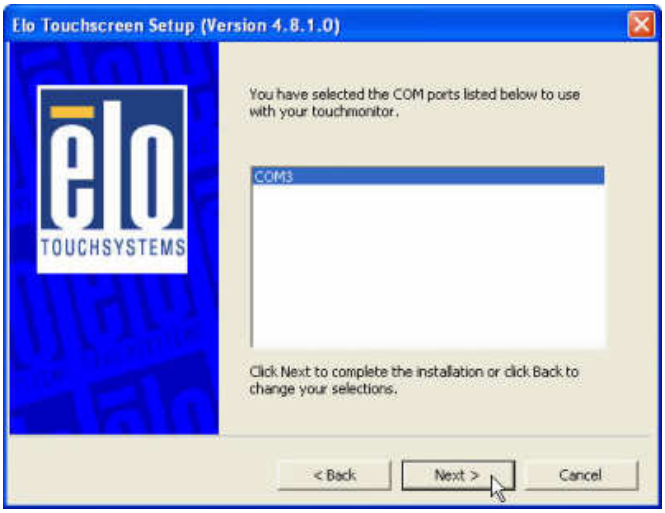
8. Read the ***“License Agreement”*** and click **Yes** if you accept it.

Elo Touchscreen Setup (Version 4.8.1.0)
Select the COM ports to use with Elo serial touchscreens. Check the Auto-detection box if you want Setup to auto-detect COM ports currently connected to Elo devices.
During Auto-detection, Setup will send data to each port which may temporarily interfere with some types of serial devices.
Click Next to continue.
Auto-detect Elo touchscreens.
< Back
Next >
Cancel

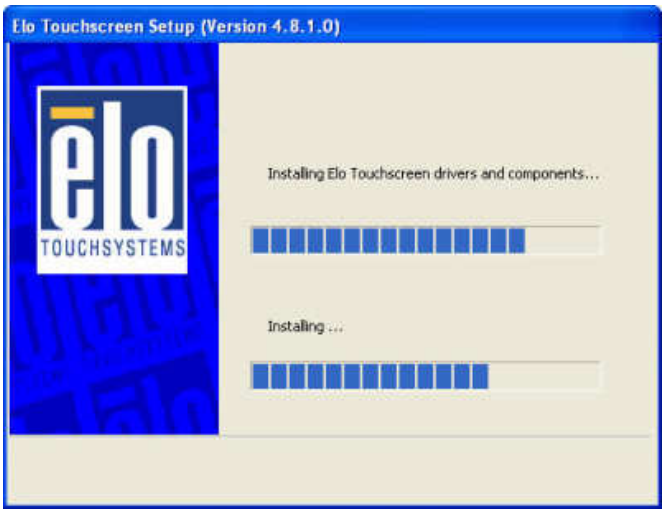
9. Select “Auto-detect Elo touchscreens” and click **Next.**


Elo Touchscreen Setup (Version 4.8.1.0)
Choose the COM ports from the list below to use with your touchmonitors. All COM ports reported by your system are listed.
COM1
COM2
COM3
COM4
COM5
COM6
Once you have selected a COM port, click Next to continue the installation.
< Back
Next >
Cancel

10. Select the COM port for the touch monitor. It is recommended that you select **COM3** for the touch screen, as this port is internally configured for touch operation. And click **Next** to continue.


Elo Touchscreen Setup (Version 4.8.1.0)
You have selected the COM ports listed below to use with your touchmonitor.
COM3
Click Next to complete the installation or click Back to change your selections.
< Back
Next >
Cancel

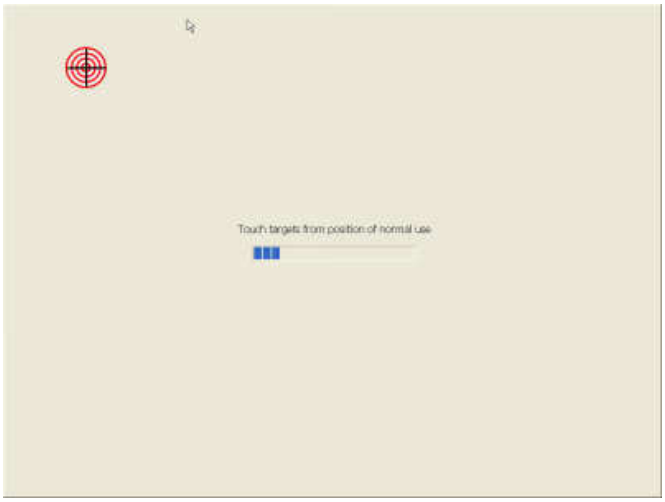
11. Make sure the COM port listed is the one you chose for your touch monitor. Press **Next** to continue.



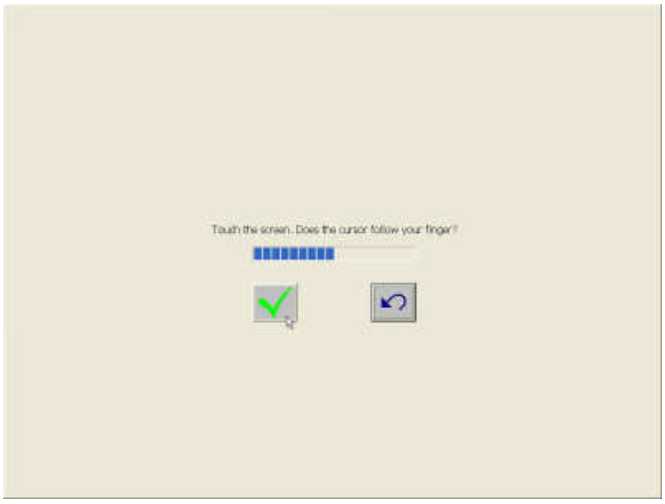
12. Wait until the ELO Touch Tools installation finished.

Elo Touchscreen Setup (Version 4.8.1.0)
TOUCHSYSTEMS
Setup Complete
Setup has finished installing the Elo touchscreen drivers and components.
You can choose to calibrate your Elo Touchscreen monitors after setup finishes.
Calibrate Elo Touchscreen monitors.
View Readme.
Click Finish to exit Setup.
< Back
Finish

13. Select **"**Calibrate ELO Touchscreen monitors" and click **Finish**.



14. Start calibrating the touchscreen by touch the targets showed on the screen.



15. If the cursor is working fine, click to finish the setting; if not, click to calibrate the screen again.

IT MAY BE NECESSARY TO RESTART YOUR COMPUTER TO UTILIZE YOUR TOUCHSCREEN FEATURES.

16. Click **Restart** to reboot your computer again.

ELO Control Panel

This section explains the different options in the ELO control Panel.

General tab

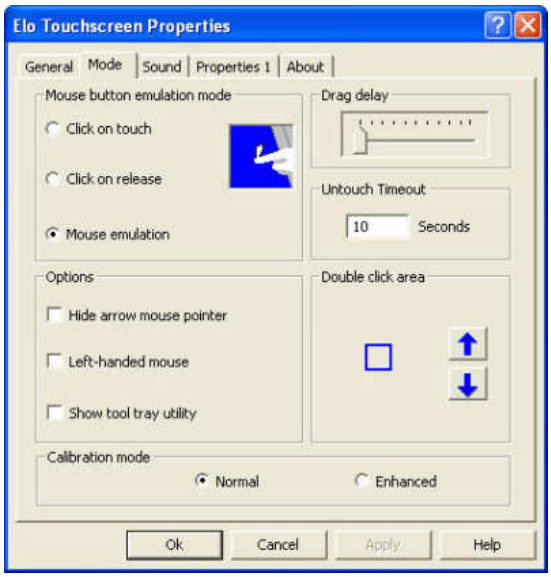
The general tab allows you to:

- Change the COM port your touch screen is set to.
- Calibrate the touch screen with the **Align** button.

Mode tab

The Buttons tab allows you to:

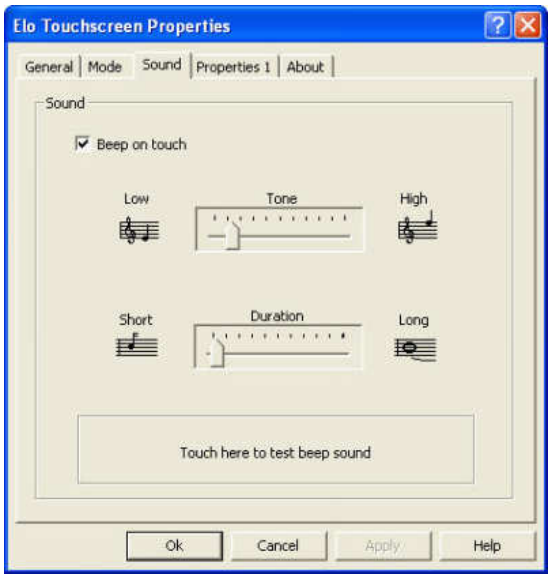
- Adjust all mouse emulation controls.
- Change cursor properties
- Enable or disable right mouse button utility.



Sound tab

The Sound tab allows you to:

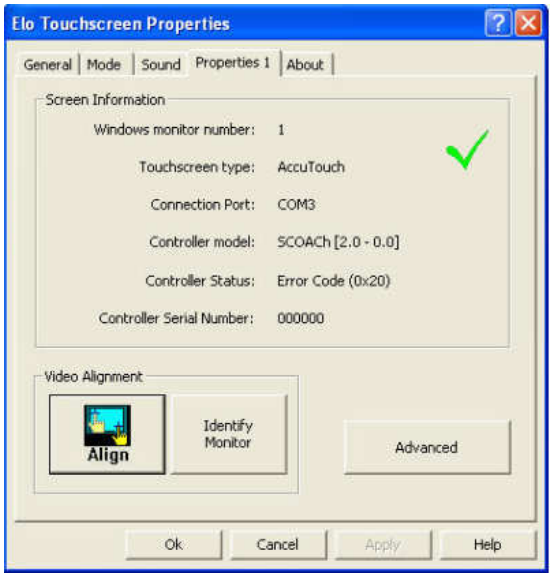
- To change sound properties for ELO touch tools.



Properties tab

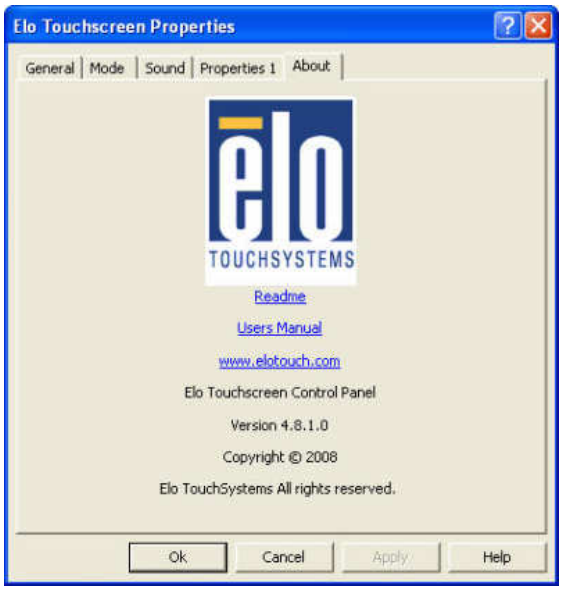
The Diagnostics tab allows you to:

- View Controller Information.



About tab

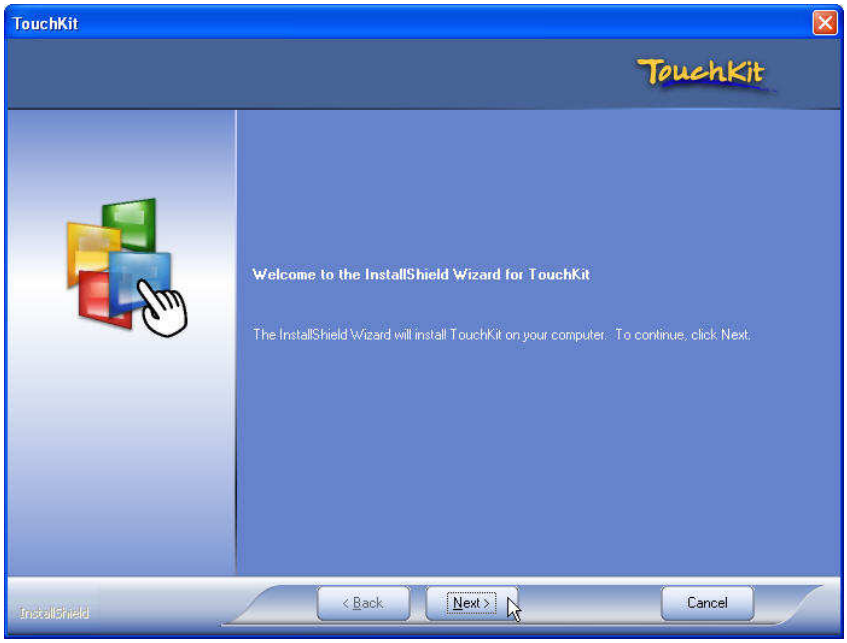
The About tab displays Information about ELO Touch systems



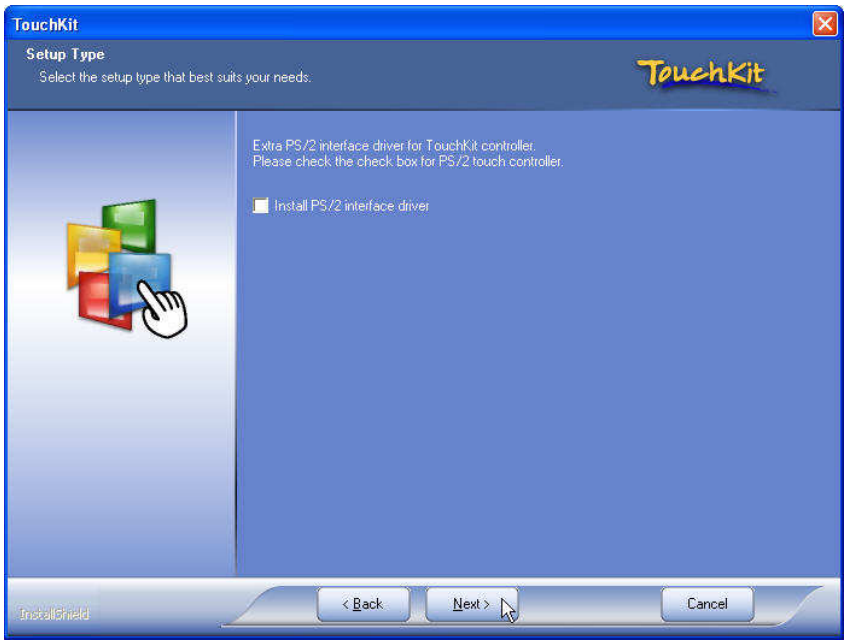
TouchKit Tools Installation

Fuji TouchKit Installation for Windows XP & Vista

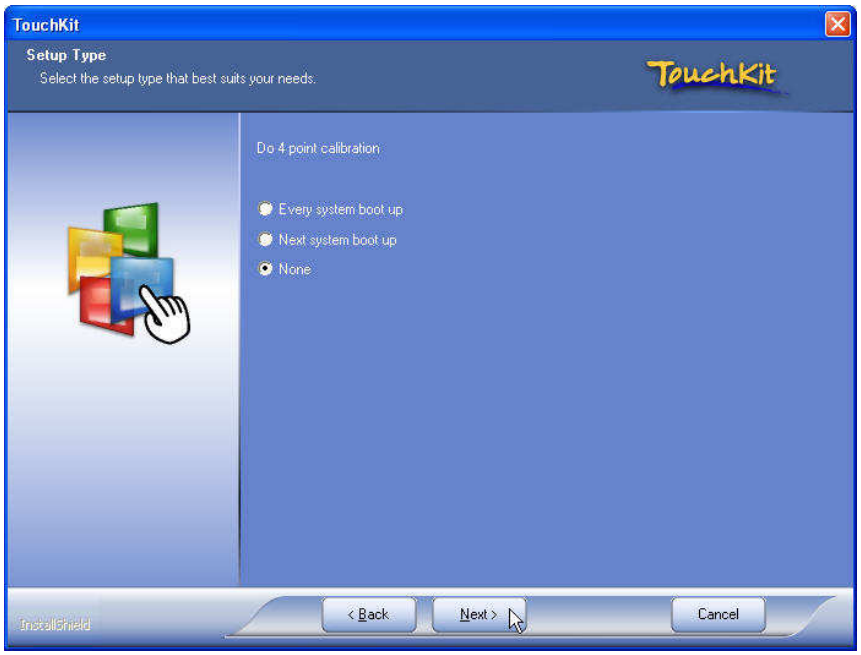
1. Locate **D:\Utility\TouchScreen\TouchKit(Fujitsu)\Windows 2000 XP**
2. Select the relevant folder for the operating system that you are using.
3. Open **Setup.exe**


TouchKit
TouchKit
Welcome to the InstallShield Wizard for TouchKit
The InstallShield Wizard will install TouchKit on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

4. Click **Next**



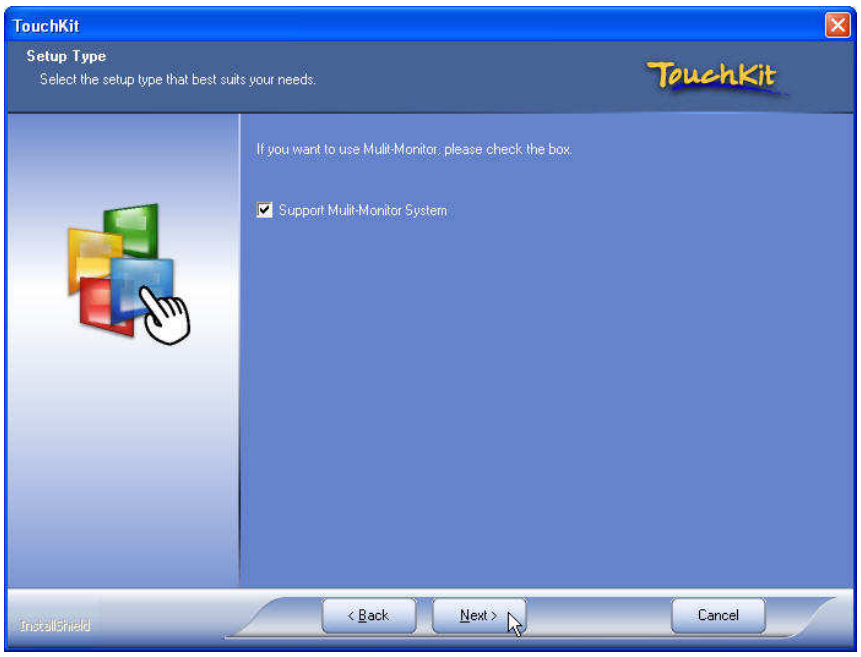
5. Click **Next**



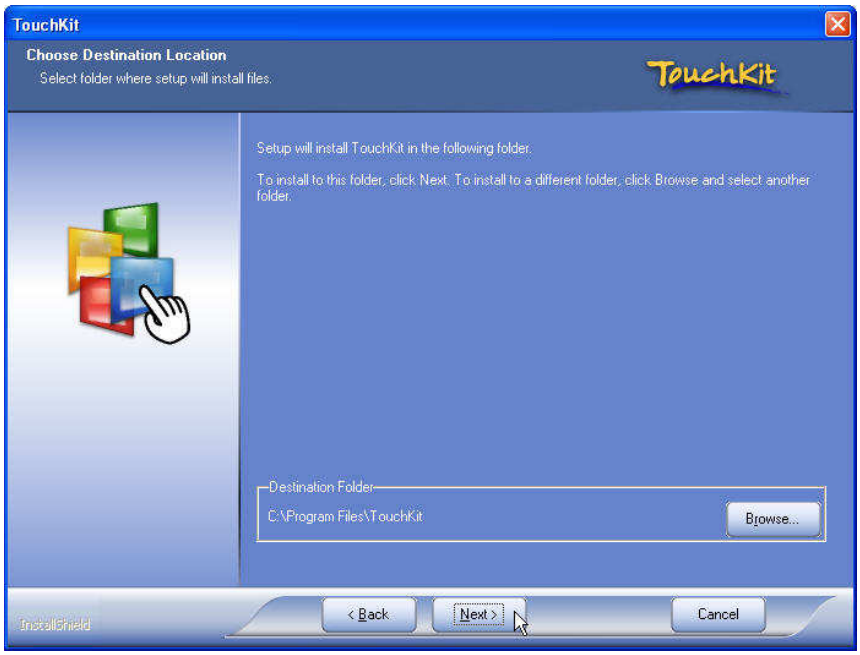
6. Click **Next**

TouchKit - InstallShield Wizard
If you are trying to install the USB touch device, please make sure that your touch monitor or touch controller's USB cable is plugged into the computer now.
Please close the "Found New Hardware Wizard" dialog when it pop-up.
OK

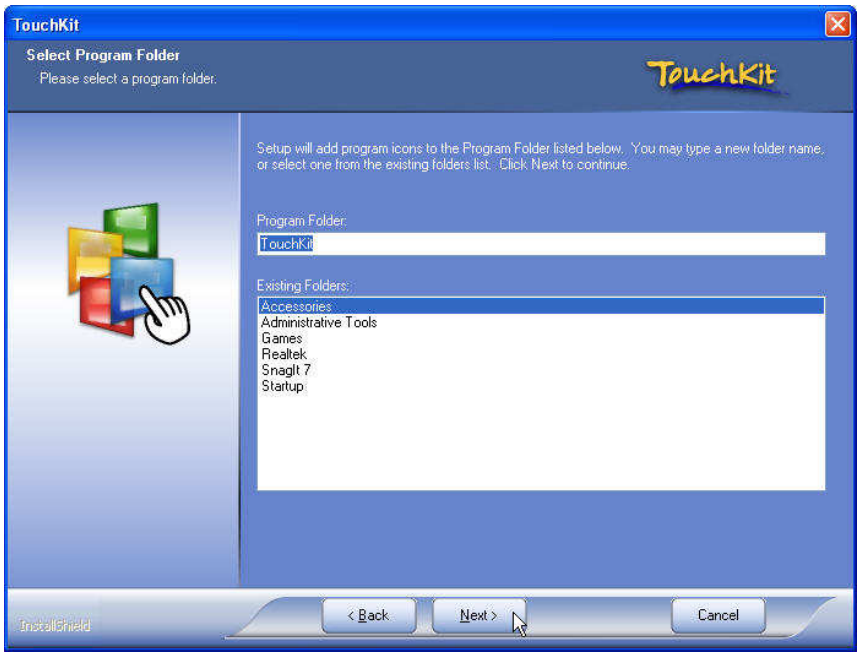
7. Click **OK** to close the pop-up dialog.



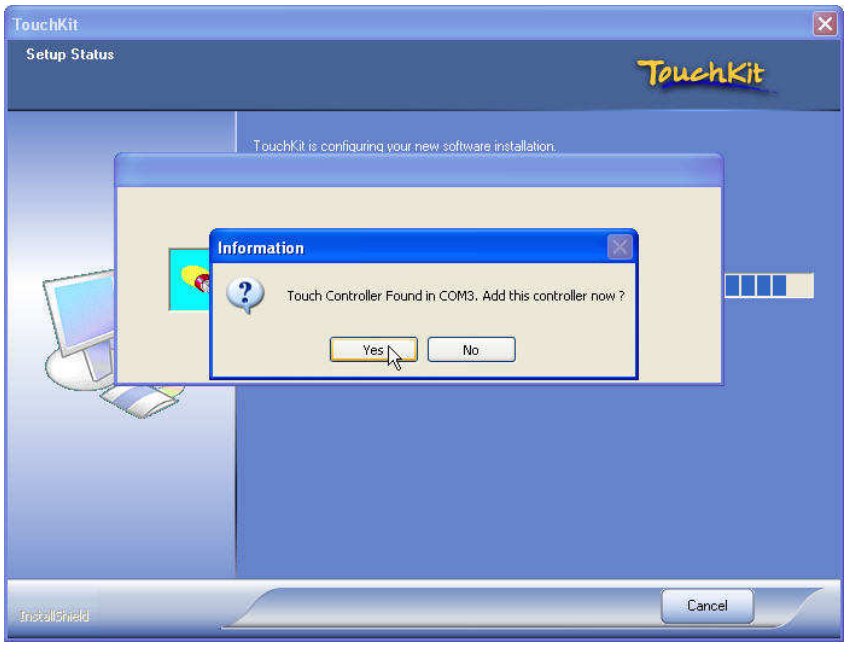
8. Click **"Support Multi-Monitor System"** and then **Next** to continue.


TouchKit
Choose Destination Location
Select folder where setup will install files.
TouchKit
Setup will install TouchKit in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\TouchKit
Browse...
InstallShield
< Back
Next >
Cancel

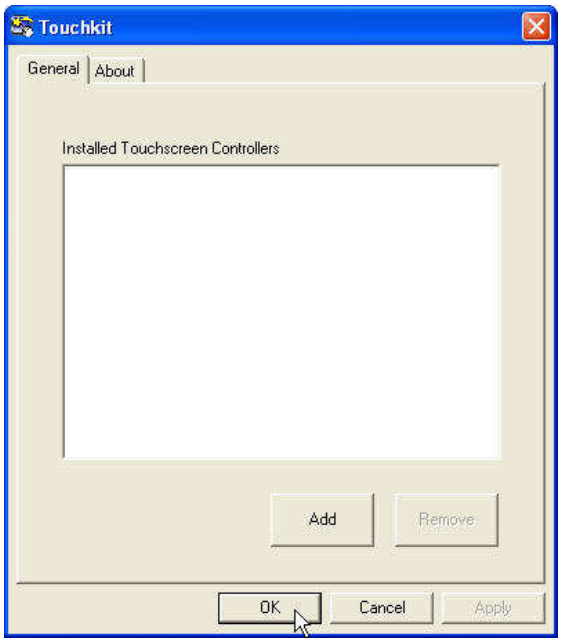
9. Click **Next**



10. Click **Next**



11. Click **Yes**



(for Windows XP)

(for Windows Vista)

12. Click **OK** and turn off the computer to restart your system again.

After the system finish rebooting follow the directions to calibrate the Touch screen.

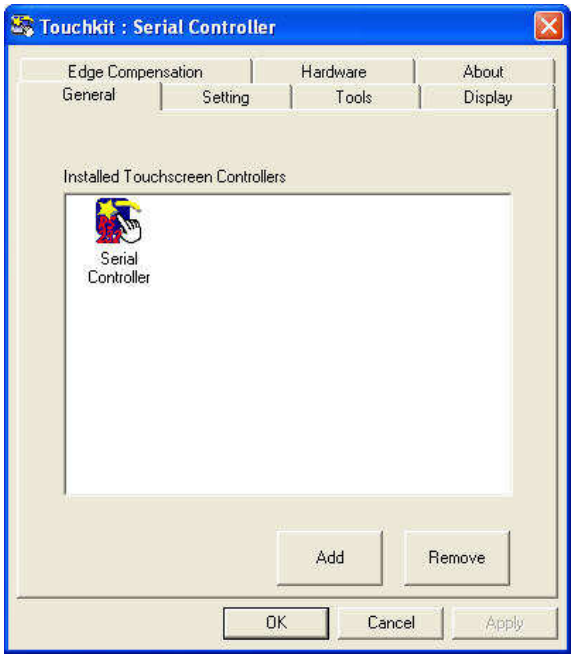
TouchKit Control Panel

This section explains the different options in the TouchKit control Panel.

General tab

The general tab allows you to:

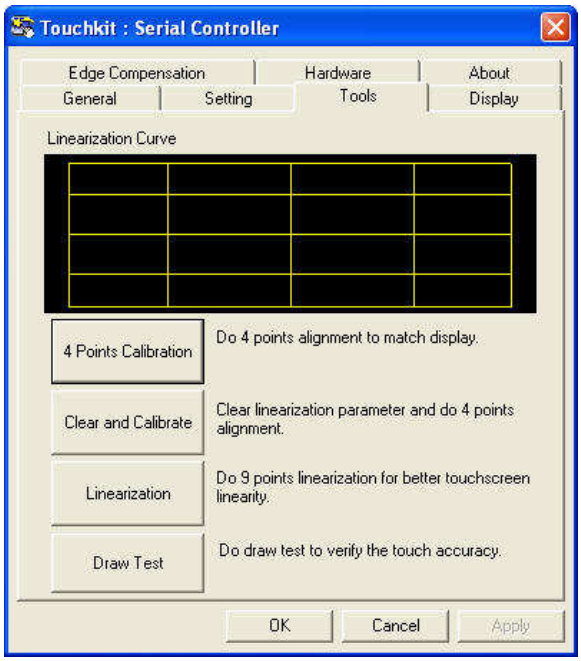
- Manage the touch screen controller you installed.



Tools tab

The tools tab allows you to:

- Calibrate the touch screen with the **4 Points Calibration** button.



Chapter 4

Specifications

MP-3275 Specifications

System Configuration	
CPU (LGA775)	INTEL® Celeron 440 (2.0GHz) or Dual Core E2160 (1.8GHz)
Chipset	Intel® 82945GC GMCH
South Bridge	Intel® 82801GB ICH7
Memory	Support Two DDRII 400/533MHz SDRAM up to 2GB
VGA controller	Integrated in 945GC (Graphics Media Accelerator 950). Up to 224MB maximum video memory, allocating system memory dynamically
Primary LCD Panel	15” TFT LCD Panel (1024x768).
Primary Touch Panel	15” with Fuji 4-wire or ELO 5-wire resistive touch panel
Storage	Internal 2.5” Serial ATA 80GB hard disk drive as default Support type II Compact Flash™ Disk. IDE interface Support IDE-44 pin DOM
Speaker	Integrated 2W x 2 stereo system speakers
Power	270 watts external power supply
I/O Port	
Serial Port	3 User available COM ports (COM1, COM2, COM5). 2 System assigned COM ports (COM3 & COM4). ➢ COM3 for primary touch screen. ➢ COM4 for built-in LCM customer display 1 Reserved (COM6).
Enhanced Parallel Port	Support EPP/SPP/ECP

USB port	8 USB 2.0 ports (3*Internal, 5*External)
Cash drawer port	RJ11 Cash drawer port,12V actuation.
Keyboard Port	One PS/2 keyboard port.
LAN Port	10/100M Base-T Ethernet Controller, Realtek RTL8102E
VGA Port	Standard D-SUB 15 Pin VGA Port
Audio Port	Integrated Sound Blaster compatible, AC97 Audio Codec. (Realtek ALC662)
Optional Features	
Customer display	➢ Built-in LCM module ➢ Pole-type VFD customer display
MSR	External Magnetic Stripe Card Reader track 1/2/3
Wireless	➢ Internal WiFi Module(USB) ➢ Internal CDMA or GPRS Module (RS-232)
Power Consumption	
Power consumption	150W (Standard system while running programs and accessing HDD).
Operating temperature	
Operating temperature	0 ℃ ~ 40 ℃

Chapter 5

Troubleshooting

Please note that the following troubleshooting guide is designed for people with strong computer hardware knowledge such as System Administrators and Engineers.

Display Does Not Show Properly Under DOS Mode

A) Enter BIOS setup program and then get into the Boot Display option. Check if the default setting is [Auto]; if not, change the setting to [Auto] and press **F10** to save the settings.

B) Due to the chipset limitation, while two displays are connected to the system, both display contents will shrink and cannot show properly in size under DOS mode. After the system booting completed and running under the Windows OS, the display will show in normal size. Such situation appears both in 945GC and 945G chipsets.

Touch Panel Does Not Work

A) Check CMOS settings, COM3 needs to be “Enabled”. The correct settings are “4E0” and “IRQ10”.

B) Check if there are no conflicts between COM3 IRQ10 and any other devices.

C) Check if the ELO driver or the TouchKit driver has been properly installed. Or try to re-install again (Please refer to the ELO driver installation or the TouchKit driver).

D) Check if the ELO controller or the TouchKit driver on COM3 has been detected during the ELO driver or the TouchKit driver installation. If yes, then check if the flat cable from the ELO touch screen or the TOUCHKIT touch screen has been properly connected to the ELO controller or the TouchKit controller (**Attention:** Pin1 mark should be on the same side as the ELO controller).

E) Check if the ELO controller Green LED is blinking?

If no, there is no DC+5V support for the ELO controller from the motherboard.

F) Touch screen controller could be defective or the touch panel could be defective.

ELO Touch Panel Cannot Calibrate Correctly

A) Please replace the ELO controller, and re-calibrate. If this works, change back to the original ELO controller, and re-calibrate.

B) If the ELO touch panel still cannot calibrate correctly after changing to a new ELO controller, the touch panel may be not installed properly or it could be defective.

LAN Is Not Functioning Properly

A) Check if the LAN driver is installed properly. (Please refer to the LAN driver installation)

B) Check if there are any IRQ conflicts.

C) Check if the RJ45 cable is properly connected.

D) The on board LAN chip could be defective.

COM1, COM2, COM5 Are Not Functioning Properly

A) Check if the I/O ports are enabled in the CMOS setup.

B) Check if there are any IRQ conflicts.

C) The motherboard could be defective.

Cash Drawer Port Is Not Functioning Properly

A) Make sure the pin assignment matches between the cash drawer and the RJ11 cash drawer port.

B) Verify the digit I/O port address is 2F

C) The motherboard could be defective.

USB Device Is Not Functioning Properly

A) Ensure that the USB controller is “enabled” in the CMOS setup.

B) Ensure that the USB Legacy is “enabled” in the CMOS setup. (Windows 2000、Window XP Professional)

C) Ensure that the USB Legacy is “Disabled” in the CMOS setup. (Embedded OS: Windows XP Embedded、Window CE. NET、Linux RedHat 9)